

# PyroTECHNICS

THE NOW & THEN NEWSLETTER OF  
GENERAL TECHNICS

PERPETRATED LARGELY BY  
JEFF DUNTEMANN  
& CAROL DUNTEMANN

ISSUE LIM (X<sup>2</sup>-1)  
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## ODD THOUGHTS

Ladies and gentlemen, due to circumstances beyond Captain Al's control, we will not be able to bring you Pyro 24 this evening. Instead we will be forced to present Pyro F(x), where F is that function asymptotic to 5 squared minus 1. We'll do our best, but since this must be one of the hastiest Pyros on record, you'll have to excuse minor absences of rational thought.

In fact, lack of time to prepare any major absence of rational thought means you'll just have to make do with a bunch of little ones. So it goes.

This will, in fact, be the last Jeff Duntemann PyroTechnics (don't faint before finishing this sentence) in the current format, which has held out since issue #2, way back in May of 1976, which I realize is long before most of you young'uns was borned. There are reasons. First and foremost, I'm kind of sick of the way it looks. Even I don't wear double-breasted suits anymore, and I think the time for Microgramma Bold Extended rubdown letters has come and passed. After conferring with Chuck Ott, GT's leading expert on layout and graphics, we both agreed MBE was becoming a powerful emetic, and choice of another typeface is in order. I'm working on it.

Secondly, we have the resources to make PT even more professional-looking, and we aren't using most of them. Pyro 25 will show you what I mean.

Some hotheads apparently got hot because they thought I was now only accepting text which is five inches wide and justified. C'mon, give me credit for more brains than that!!! If you have the means to produce such text, produce it; I know of at least fifteen members who can do it, which is enough to mention it in print. From the rest of you, it's business as usual for the last five years--send me what you have. The Poor Man's Justifier is still perfectly acceptable, and what I used for the first several issues: Type your copy on five-inch wide strips of paper. Send me the strips, and I paste them down. Ragged margins are no disgrace. Really.

Long, long, long ago, there was much talk of the GT Secret Masters Uv Technology (SMUT) program, whereby techies who demonstrate exemplary skill and dedication to the cause above and beyond the call of Physics 101 would be initiated into the airy and somewhat vacuous upper levels of techish innishness. Making that sort of judgement was a task I wouldn't touch with a poor holograph of a ten foot pole, but so many people have been hollering about it that it may well be time to go along. Jeff Tolliver did up a marvelous Official SMUT license, complete with engine-turning borders and lots of Ersatz Olde English Calligraphy. It's a beaut, and I have run it off on Genuine Imitation 100% Recycled Pseudo-Parchment. We will present the first few at Marcon amidst rites so secret absolutely nobody will ever know what they are.

After my first seasonal fight with my swath of mutant Upstate Juicygrass (clippings so heavy they undergo gravitational collapse atop the compost heap) I collapsed into a hot bath and hit my head so hard I couldn't see straight until the next day. I actually caught myself thinking: If we



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can send a man to the moon, why in hell can't we manufacture a truly comfortable bathtub?? Amidst this shower generation, I am a bath-atavist. Carol and I take virtually all of our baths together, a habit we formed before our honeymoon and never really got out of. It's a touch cramped, but being in a bathtub with Carol kind of takes the edge off of minor considerations like that. And I suspect more people would take baths with friends if bathtubs were less puritanically designed. It wouldn't take much to make a bathtub comfortable for two. It would have to be deeper by about eighteen or twenty four inches, and have a seat molded into each end at about the height the edge of the tub is now. Delightful! For groups of three or more those redwood things are probably necessary. I imagine I could afford one, and in fact (would you believe) there is a hot tub store down on the corner from here, but figuring out where to put it is a real head scratcher. I'm planning on building a flat-plate solar water heater one of these days, and if that actually works the temptation will be irresistible. In the meantime, loosen up, suck in your gut, and two-it in the tub. At least you won't hit your head like you did if you lay down.

My Compucolor II is still for sale. Unbeatable low price of \$2200. Somebody buy it. Please.

Those of you who attended MiniCon are aware of the mountain the concon made of the plastic-raygun molehill. In keeping with our ever-increasingly paranoid society, the concon decided to forbid toy weaponry for "safety" reasons. "Safety" is itself a deadly concept, deadly to all human freedom and human endeavor. I'll speak of it further in a future editorial. In the meantime, Captain Al has promised to cover the matter thoroughly in Pyro 24. He was there, and I'll leave most of it to him. What I do want to advise is this: We started this organization, at least in part, to counterract the development of the Dorsai into fannish stormtroopers. The Dorsai can protest all they want that their preoccupation with paramilitary mayhem was pure fantasy. I say bullshit; those uniforms looked mighty real to me. Worse yet, I saw the glitter in certain Dorsai eyes while they spoke of caving people's skulls in with Akido sticks and karate chops. That stuff is plenty real, and plenty dangerous. The Dorsai went wrong by looking, acting, and thinking too much like Green Berets. The GT alternative is to propel such innate human aggressiveness as there be into a fantasy milieu with effectively zero connection with current reality. And that means, simply, don't make your raygun look like a tommygun. Make sure it has lots of blinking lights and plastic trim. Fer chrissake don't make it gunmetal grey or khaki green; keep it polished silver or transparent Plexi. Use yer heads; keep contact between GT weapons and mundanes to a minimum. Keyswitch laser guns. Think. Still, let this not be thought of as agreement with the MiniCon philosophy. I think we should make our position plain, and promise to band together to pull the plug on and sink any convention which announces intention to enforce a no-raygun policy. I would rather see no more MiniCons, ever again, than see that kind of crap show its head in the normally sensible fannish philosophy.

GENERAL TECHNICS is an organization of fannish techies (and not techish fannies, as some wiseass reported) who share data, resources, and experience in pursuit of a good time and occasional profit. The group meets mainly at cons, hamfests, and private Berserker Weekends. MEMBERSHIP is terribly difficult to obtain. you must somehow scrape up a number of 15¢ stamps, and then at great effort write a letter explaining what your qualifications as a techie are to

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including those stamps. If the abovementioned person can read your handwriting you are an APPRENTICE TECHIE and entitled to call yourself a member of General Technics. You will also receive PYROTECHNICS until your stamps run out. Renewal of membership is synonymous with sending more stamps. If you decide to quit, we will use one of your stamps to send the rest back to you. If you're nuts enough to want to become a SECRET MASTER UV TECHNOLOGY (SMUT) you had better write to

Tullio Proni  
530 West Walnut  
Kalamazoo MI 49007

because I don't have anything to do with it.  
ANYTHING ELSE, ask me. I may not know but I guess better than anybody else around here.

Isaac Asimov's SF Magazine will finally (after 3 years) be printing "Cold Hands" in their June issue. Look for it starting the last week in May.

Yes, Virginia, there will be a Berserker weekend the weekend before Noreascon, and it will be on the jolly road to Boston, one thin day's ride from Chicago, where else? Right here in the choicest suburb of the Galactic Capital. We will be supporting crashers all that week up to Wednesday, when we will also pull up stakes and head for Worldcon.

George Ewing will also be holding a Berserker two weeks before that, up in the Backwoods where all those zaps come from. Details are a little sketchy, but the weekend will include a trip to the infamous Antlers Bar and a hunt for the mysterious Nocturnal Styrofoam Crunchers. George also needs some stout-hearted folk to help demolish his aging geodesic dome and cart away some moldy electronic scrounge that no longer fits in the junkbox. Contact George for more details; when things firm up a bit we'll print them in a future Pyro.

This past Saturday, I visited what must be the most incredible electronic scrounge outfit I have ever found: Glenwood Sales, on the west side of Rochester, three blocks south of Lyell Avenue on Hague Street. Guys, this beats the bejayzus out of anything in Chicago. Imagine a half acre of ten-foot steel shelving, full of boxes of oddiments with a sample tied to a string on the front of the box. I cannot think of a single stock hobbyist item they did not have. Edgcard connectors, LEDs, 1% resistors, PC board by the ton, scrap circuit boards, meters, rubber feet with embedded machine screws, miniboxes, lightbulbs, antique dresser-drawer hardware, fuses, coils, variable capacitors, trimmer caps, silver-micas, relays, motors, switches, transformers, and things which I honestly couldn't begin to identify. TTL, marked, nickel apiece. Valcro. ribbon cable. nicads, Gel-cells, lots and

lots of things. We'll be going there the Saturday before Worldcon. Right down the street is The Plastic Center, a plexi emporium which equals or exceeds any similar place I've heard of. This town's looking better all the time, folks.



## NERTZ & BOLTZ

The Cave of Time by Edward Packard; Bantam, 1979, \$1.25-- illustrations by Paul Granger

This is a kid's book, the first of a series of three called "Choose Your Own Adventure". It's based on a gimmick you may have seen before: It's organized as a decision tree, and the particular story you read depends on the choices you make. For example, in one sequence the hero ("you") meet a knight on horseback who invites you to come back to his castle. If you decide to accept, the story continues on page 22. Otherwise, your tale picks up on page 114.

The blurb page has all sorts of glowing comments from children who've read the book, and the teachers who have used it in class. I have a feeling that really little kids, say five to ten years old, would really enjoy this. There isn't much in it for adults.

I mention this book because it parallels the process used in implementing fantasy role-playing games (or FRP, as Recreational Computing loves to call them) on a computer. If games like the "Zork" game described in the last RC appeals to you, you might want to check out this book to see how Packard arranged it.

-OTT

When Lovers Are Friends, by Merle Shain; also, Some Men Are More Perfect Than Others, both published by Bantam Books, softbound.

Merle Shain is a sad-eyed, fortyish woman who read "The Tech of Loving" long before I wrote it. It was marvelous to pick up a book in an airport to kill time on the flight to Miami, and find someone preaching the same truths.

There is no thematic difference between these two books; you might as well buy them both and read them as one. The author is optimistic enough to believe that all human beings are capable of loving and being loved, and yet realistic enough to recognize that good, sane, unselfish love is not to be had without work, humor, and considerable introspection. She says some things I didn't say, but should have: You must be prepared to forgive a great deal in order to love; you must be generous with your time and your feelings.

The author maintains a strong personal presence throughout the books; much of what she relates has happened personally to her, and it shows. The feelings are there. The feelings, and the author's reaching for the feelings occasionally cause the text to ramble a little, but I will forgive her that. She says, in the process of rambling, some very remarkable things. Things that are so obvious I wondered why I had never thought of them-- yet I hadn't.

What I saw as the most important message in either of these books was this: Know yourself, and in that knowing, love. Loving and learning, people. At the bottom line the two are one and the same.

-VE ED.

MESKLINITE  
POLE  
VAULTOR

AH

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WHAT'S WRONG, BUNKIE ?

...YOU SAY YOU HAVE AN IDENTITY CRISIS  
WHENEVER YOU SAY YOU'RE A "TECHIE"—  
AND THE PEOPLE YOU'RE TALKING TO  
THINK "TREKKIE..."

...YOU SAY YOU CAN'T CARRY YOUR LASER  
THROUGH AIRPORTS WITHOUT BEING  
FIRED ON...

... AND THE LAST TIME YOU WORE YOUR  
PLAIN BLACK TEE-SHIRT THE DORSAI  
TRASHED YOU FOR A FRIENDLY...

WELL, BUNKIE...

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#### PyroTechnics

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#### Greetings:

"Five inches wide, and justified", you say, and that's what you're going to get. (at least you'd better... goddamn computers anyway...) At least part of this multi-function letter can go into Pyro if you want; you edit it by cutting out paragraphs, I presume.

What's making this pretty text is a Datalogics, Inc. typesetting system, Datalogics being my present employer. The system is a PDP-11/45 which can drive all sorts of fancy phototypesetters (the Xerox 9700 printer output driver is under development now), but in this case is just running the crummy old Hytype-II which we have in the office for test runs & doc. Doug Price & Chip Bestler live work here, too.

Enclosed is a piece of Higgins artwork which passes as my COA (change of address) flyer. As you can see, Bill was inspired by the fact that he helped me move; it really isn't quite that heavy.... The flyer's so old (December) because it's been waiting for this letter: It has already been distributed alot, so I suggest you not repro it in Pyro.

Several thoughts on "The Tech of Sex Loving" in Pyro 20 (I told you it took a long time to write this letter!) follow:

Basically you're right. (Geez, that hurt.) But why go through all that trouble when we've all heard about those surveys proving you can get laid by standing on a street corner and asking enough passers-by... the reason is quality: love isn't just getting laid. That's the point of not being so pushy. Not that sex isn't nice....

You (Jeff) make up some rules which are to be used in relationships to women (or whatever opposite sex); in fact, what you've got are some general rules for relating to humans. If one applies ordinary rules for relating to humans to women, that is probably enough rules. An example: "Tell her she's pretty" really means "Re-enforce his/her ego". Everyone needs egoboo; that's why some people write SF, design computers, or do whatever.

Regards Chuck Ott's three rules in Pyro 21: rules number two and three are right on the money, however, rule number one ("Admittance is not for everybody") is crap. I suggest that belief in the idea "I am not worth loving" is a suicide trap, and worth avoiding. Sure (Chuck's rule 3) it's going to end, and it will hurt, and maybe all that hurt will be your fault, and things will look mighty grim... but life isn't over. Maybe what Chuck is suggesting is that love might come easier if you learn the lesson from that failure (that's "failure analysis"... high-powered design theory, and a good idea), but it's never time to give up!

By the way, Jeff, is the reason we never see each other at cons that you are always off with some woman, I am always off with some woman, or what?

#### Other musings:

I don't know how I got associated with that 68000 microprocessor project described in Pyro 21. I did tell some people I'd design hardware with/for them for something-or-other if they got to that stage; at the time, I was sure I was safe from any work. I'm going to be staying with 8-bit micros for a while... there just isn't the quantity demand for the 16-bit'ers to bring the price down.

I've got two computer related projects in the works... one is to finally interface what one of my movers named The Twonky as it was carried up my front steps. It's a Honeywell surplus combination of clunker TTY, papertape reader, optical mark reader, and desk that I got cheap last summer. (Everyone remember my obscene blue big-toe at WhatCon 1? That heavy device.) It's all digital and easy, but who has time.... For the record, the twonky is in the living room.

Much more speculative is a Z80 system as a "backend" for my existing 8080 microcomputer. The idea is no peripherals except an interface to the existing S-100 machine, which can then do all the slave I/O work for the backend machine. The whole thing is motivated by my discovery of a possible source of really cheap 4K dynamic rams. (Contact if interested - Hitachi 4704, Mostek 4027, NEC uPD414 or similar - 250 ns access.) If the source works out, the only problem with a very large Z80 system (Z80 is the easiest way to control the dynamic memory) will be the 12 volt power supply required.

I'm still working on editing terminal designs at work. My current project is a Z80 based video terminal which has very high quality output including italics. The italics are generated from the same character generator as the regular characters, so when the memories for

the downloadable character generator finally come in, you will be able to design a character, then have it appear in all possible variations. This will be a text-editing terminal for Datalogics typesetting systems. I'm getting started on the software to run inside the terminal; the prototype hardware is just about complete. With IC lead times like they are now (3 months or more!), we wanted the design firmed up early.

That's about it for the moment.

I'm working on a "The Fonz as Proto-Techie" article for the Chicago issue of Pyro, but who knows if/when it will get done...

I understand you're traveling alot... Remember that those corporate airplane tickets can be amended to include stopovers and sidetrips on your personal money very cheaply. You could show up here again....

We (Jeff, Carol & Dick) might all be at MarCon and/or Midwest-Con, since those are sort of closer to you, but, if so, I will probably not see you there as usual... Until then...

I remain



Dick Smith

#### ZAPS FROM THE BACKWOODS DE GEORGE EWING

#### Stella Starcrash! AND Up From the Depths!

These two have been making the small town theater and drive-in circuit across the Rural Midwest. I found them to be absolutely hilarious, but then I also fell out of my seat laughing at Alien and Starship Invasions.

Starcrash! (The heroine's name is sometimes left off the title depending on which dubbed version you're seeing) is, believe it a lot or not, an Honest-To-Gosh Spaghetti Space Opera, featuring a Barbarella-like lady dressed in a 42 D-cup Frazetta Body played absolutely straight and deadpan by Caroline Munro. Marjoe Gortner tags along playing what seems to be Obi-Wan-Kemosabe's smartass nephew, and there are other such wonders as:

1. A robot who wears a sixgun and spurs, and talks like Slim Pickens in Blazing Saddles.

2. Smerps!

3. A Gold suit of Emperor's New Clothes modeled by Sherlock Holmes disguised as Christopher Plummer.

4. Hordes of prisoners in a dungeon shovelling radium into a furnace.

5. Light saber duels with a snickering bad guy in a black cloak, and with two robotic copies of the skeleton (hydra's teeth) soldiers in Schneer & Harryhausen's Jason & the Argonauts.

6. A ferocious battle with an enormous metal woman with huge tits, probably Talos' mama from the same movie.

7. Dozens of Imperial Troops wearing football helmets riding in little gold torpedoes that crash through the windows of the bad guys' secret fortress, right out of a '30's Planet Stories cover. If Harryhausen doesn't sue, Doc Smith ought to, from whatever dimension he's in right now. The whole thing's a blast, and the cast would make it to the Masquerade finals at any worldcon. The dialog, dubbed, really inhales.

#### Up From the Depths!

This little gem was a product of the warped genius of (who else?) Roger Corman, who gave us all those great, mindless Beach Party and Monster flicks, and some of the great Vincent Price-Boris

Karloff-Peter Lorre-Poe movies; this time it's a wonky parody of Jaws set at an exclusive resort for Ugly American tourists on one of the outlying Hawaiian Islands. The camera lingers lecherously over one string-bikini'd Wahine after another, interrupting every so often with gruesome violence for a quick sequence, and then another heavy-handed but funny interlude featuring the tourists.

Good bits:

1. Rampaging monster tears into a lagoon where native children are diving for pennies. They all escape by hiding in the rocks and badmouth the monster and give it the finger.

2. Famous fashion model, nude, is dangled over the water in a net as bait. Monster gets her, but also gets the boat, the Poparazzi, and assorted Kodachrome who were standing around in loud shirts and sunglasses.

3. Drunken tourist goes after the monster with a home-made flame thrower. Under water.

4. Stoned beach bums are disgusted when the monster kills their oceanographer boss. Not having a nude fashion model to use for bait, they stuff the boss's corpse with plastic explosives, tow him along behind their boat, and go trolling.

After that there's a lot of really Violent and Disgusting stuff.

Funniest thing since the Peter Lorre movie where the down-and-out morticians bought a meat grinder and went into the cat food business.



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## G

### BIODATA

#### BILL HIGGINS

Born 12 January 1954 on the banks of the picturesque Genesee River, I can't remember a time when I wasn't fascinated by machines. This interest in engineering works led naturally to an interest in science, and by age seven I had a strong hunch that I was gonna be a physicist.

I didn't discover SF accidentally; I knew it was out there somewhere. Locating it in Detroit around third grade, I started a reading blitz which still has not stopped. One of my secret ambitions is someday to be a critic of SF. There are damn few folks around who've read five Olaf Stapledon novels.

I spent four excellent years at the University of Notre Dame, where I tried a little of everything: radio announcing, theology, snow sculpture (a giant bare foot with five toes, so we could look out the window and yell, "Hey, there's a foot of snow on the ground!"), high vacuum plumbing, square dancing, outdoor waffle making, information theory, 50-mile bicycle trips, history of science, building a small TV studio, kissing, tensors, running a coffeehouse, candlemaking... Physics was picked as a major because a guy who wants to know everything has to start somewhere, and physics seems to be useful in understanding more things than any other major, except perhaps philosophy.

Of course I've been an unreconstructed technicist from the start. Many of my identity problems have come from measuring myself against Tom Swift, Jr. One high point of my career was meeting Wernher von Braun and discussing with him the early days of the Verein fur Raumschiffahrt. I helped start TALOS (The Ardent Lovers Of Science Fiction), an ND fan group which met desultorily for a couple of years, then folded when half its members left to form a SCA chapter.

My chief claim to fame in techiedom is model building, mostly planes, armor, and dioramas using them. Starting at 13, I bypassed many of the difficult stages younger modelers go through: zum Beispiel, I never set a battleship on fire nor demolished a tank with an M80. From the scrap box I have fashioned many spacecraft, death rays, ornithopters, and other unlikely items. (Hopefully your editor is able to run a photo or two of them.) I thought these might turn a profit at cons; alas, only one has been bid on, let alone sold. Anybody want to buy some models?

A former president of TALOS and The Physics Club of Notre Dame, I am a charter Zoid and a member of the American Physical Society and the Father Sorin Lunch Club (no mean robot builders themselves). I am a fair cartoonist, ukelele player, quantum mechanic, Tandem Operator (that's a tandem Van de Graaf nuclear accelerator, gang), and volleyball player. Currently I am learning to play the banjo, talk to PDPs and micros, jitterbug, and paint lead miniatures.

I've spent a year now at Michigan State in pursuit of a Master's and maybe a PhD, in physics. Here I met Renee Sieber, Official GT Shiggy, and the amazing Barry Gehm, the Egg of the Phoenix-- just ask him an SF trivia question. Grad school is not as lively as ND was, but I'm getting used to it.

One last list to help characterize myself-- I like: Clarke, Heinlein, Niven, Zelazny, Delany, girls who smile, airplanes, strawberries, good special effects, other people's weddings, the Grateful Dead, puns, anchovies, acting, astrophysics, zeppelins, Gravity's Rainbow, Notre Dame, coffeehouses, cranberry juice, videotape, T.S. Eliot, Singin' in the Rain, and Firesign Theater.



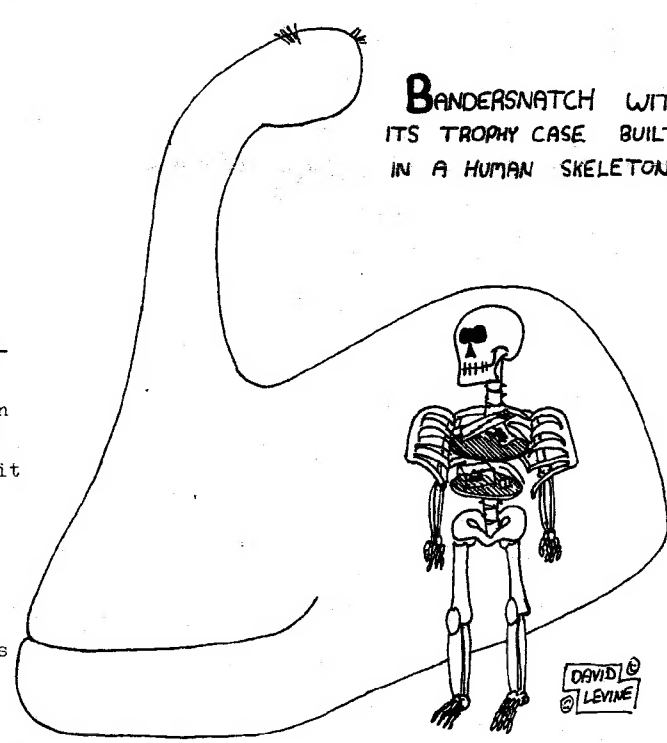
#### LITTLE KNOWN FACTS:

The White Rabbit was always late because he forgot to wind his watch. Technology, however, has solved his problem with the advent of the electronic chip watches. Rabbit, seen here sporting the newest of the LED pocket watches, is never in a tizzy anymore... Thanks to products from Silicon Valley.

it wuz a gift from Alice!



#### BANDERSNATCH WITH ITS TROPHY CASE BUILT IN A HUMAN SKELETON



DAVID  
LEVINE

## GETTING HEARD BY WASHINGTON

### Effective Letters Have:

#### ONE PAGE

- one typewritten page
- standard "business form"
- no form letters or postcards
- "background" material on clearly labeled extra pages

#### ONE WRITER

- write as an individual, unless an organizational officer
- either point out that you're a constituent or supporter, or mention relatives or friends who are

#### ONE POINT

- one issue per letter: single idea/issue/project/bill/vote
- be specific (use the number or name of the bill)
- say what you want done

#### TO BE CONVINCING

- be courteous, cordial
- helpful, not hostile
- accurate, factual
- reasoned and reasonable
- ask a question
- refer to his record
- send carbon copies to the President, newspapers; and your own Congressman, if writing some other
- DON'T COME ON LIKE A CRACKPOT!!

Hon -----  
or  
House Committee on -----  
House of Representatives  
Washington, D.C. 20515

Hon -----  
or  
Senate Committee on -----  
United States Senate  
Washington, D.C. 20510

The President  
The White House  
Washington, D.C. 20500

Hon -----, Secretary of -----  
Washington, D.C.

#### Telegrams

- Personal Opinion Telegram (to politicians); 15 words for \$2, same day delivery
- Mailgram; \$2.95 for the first 100 words, \$1.50 for each additional 100, next day delivery



# Lobbying for Space

## House Committee on Science and Technology

- \* Don Fuqua, FL
- Robert A. Roe, NJ
- Mike McCormack, WA
- \* George E. Brown, Jr., CA
- James H. Scheuer, NY
- Richard L. Ottinger, NY
- Tom Harkin, IA
- Jim Lloyd, CA
- Jerome A. Ambro, NY
- \* Marilyn Lloyd Bouquard, TN
- James J. Blanchard, MI
- Doug Walgren, PA
- \* Ronnie G. Flippo, AL
- Dan Glickman, KS
- Albert Gore, Jr. TN
- \* Wes Watkins, OK
- Robert A. Young, MO
- Richard White, TX
- Harold Volkmer, MO
- Donald Pease, OH
- Howard Wolpe, MI
- Nicholas Mavroules, MA
- \* Bill Nelson, FL
- Beryl Anthony, Jr., AR
- Stanley N. Lundine, NY
- Allen E. Ertel, PA
- Kent Hance, TX
- John W. Wylder, NY
- \* Larry Winn, Jr., KS
- Barry M. Goldwater, Jr., CA
- Hamilton Fish, Jr., NY
- Manuel Lujan, Jr., NM
- Harold C. Hollenbeck, NJ
- \* Robert K. Dornan, CA
- Robert S. Walker, PN
- Edwin B. Forsythe, NJ
- \* Ken Kramer, CO
- Bill Carney, NY
- Robert Davis, MI
- Toby Roth, WI
- Donald Lawrence Ritter, PN
- Bill Royer, CA

## \* Space Science and Applications Subcommittee

## House Committee on Appropriations

- Jamie L. Whitten, MS
- \* Edward P. Boland, MA
- William H. Natcher, KY
- Tom Steed, OK
- John M. Slack, WV
- Neal Smith, IA
- Robert M. Giaino, CT
- Joseph P. Addabbo, NY
- Edward J. Patten, NJ
- Clarence D. Long, MD
- Sidney R. Yates, IL
- David R. Obey, WI
- Edward R. Roybal, CA
- \* Louis Stokes, OH
- Gunn McKay, UT
- \* Tom Bevill, AL
- Bill Chappell, FL
- Bill D. Burlison, MO
- Bill Alexander, AR
- John P. Murtha, PA
- \* Bob Traxler, MI
- Robert B. Duncan, OR
- Joseph D. Early, MA
- Charles Wilson, TX
- \* Lindy Boggs, LA
- Adam Benjamin, Jr., IN
- Norman D. Dicks, WA
- Matthew F. McHugh, NY
- Bo Ginn, CA
- William Lehman, FL
- Jack Hightower, TX
- John W. Jenrette, Jr., SC
- \* Martin Olav Sabo, MN
- Julian C. Dixon, CA
- \* Bennett M. Stewart, IL
- vacancy
- Silvio O. Conte, MA
- Robert H. Michel, IL
- \* Joseph M. McDade, PA
- Mark Andrews, ND
- Jack Edwards, AL
- Robert C. McEwen, NY
- John T. Meyers, IN
- J. Kenneth Robinson, VA
- Clarence E. Miller, OH
- \* Lawrence Coughlin, PA
- \* C.W. Bill Young, FL
- Jack F. Kemp, NY
- Ralph S. Regula, OH
- Clair W. Burgener, CA
- George M. O'Brien, IL
- Virginia Smith, NB
- Eldon Rudd, AZ
- Carl D. Pursell, MI

## \* Subcommittee on HUD--Independent Agencies

## Senate Committee on Commerce, Science, and Transportation

- Howard W. Cannon, NV
- Warren G. Magnuson, WA
- \* Russell B. Long, LA
- \* Ernest F. Hollings, SC
- Daniel K. Inouye, HI
- \* Adlai E. Stevenson, IL
- \* Wendell H. Ford, KY
- \* Donald W. Reigle, Jr., MI
- J. James Exon, NB
- \* Howell Heflin, AL
- Bob Packwood, OR
- \* Barry Goldwater, AZ
- \* Harrison H. Schmitt, NM
- John C. Danforth, MO
- \* Nancy Landon Kassebaum, KS
- Larry Pressler, SD
- John W. Warner, VA

## \* Science, Technology, and Space Subcommittee

## Senate Committee on Energy and Natural Resources

- Henry M. Jackson, WA
- \* Frank Church, ID
- \* J. Bennett Johnston, Jr. LA
- \* Dale Bumpers, AK
- Wendell H. Ford, KY
- \* John A. Durkin, NH
- Howard M. Metzenbaum, OH
- Spark M. Matsunaga, HI
- \* John Melcher, MT
- Paul E. Tsongas, MA
- Bill Bradley, NJ
- \* Mark O. Hatfield, OR
- \* James A. McClure, ID
- Lowell P. Weicker Jr., CN
- \* Pete V. Domenici, NM
- \* Ted Stevens, AK
- Henry Bellman, OK
- \* Malcolm Wallop, WY

## \* Subcommittee on Energy Research and Development (SPS bills)

## Committee

- Warren G. Magnuson, WA
- \* John C. Stennis, MS
- Robert C. Byrd, WV
- \* William Proxmire, WI
- Daniel K. Inouye, HI
- Ernest F. Hollings, SC
- \* Birch Bayh, IN
- Thomas F. Eagleton, MO
- Lawton Chiles, FL
- J. Bennett Johnston Jr., LA
- \* Walter Huddleston, KY
- Quentin N. Burdick, ND
- \* Patrick J. Leahy, VT
- \* Jim Sasser, TN
- Dennis DeConcini, AZ
- Dale Bumpers, AK
- \* John A. Durkin, NH
- Wilton P. Young, ND
- Mark O. Hatfield, OR
- Ted Stevens, AK
- \* Charles McC. Mathias Jr., MD
- Richard S. Schweiker, PA
- Henry Bellmon, OK
- \* Lowell P. Weicker, CN
- James A. McClure, ID
- \* Paul Laxalt, NV
- Jake Garn, UT
- \* Harrison Schmitt, NM

## \* Subcommittee on HUD -- Independent Agencies

The path of a successful Bill through Congress is; assignment to a Committee and Subcommittee, Subcommittee Hearings and vote, Committee Hearings and vote; the same three stages in the other House; (Joint Committee if the versions differ)

Space bills go to the Space Subcommittees listed here (SPS goes to Energy in the Senate.)

BUT money goes through twice. First an Authorization Bill puts a ceiling on expenditures, then an Appropriations Bill actually allocates money. NASA's Appropriations go through HUD--Independent Subcommittees.

(There are two bills left in Senate Subcommittee from last session: Senator Stevenson's National Space Policy Bill, S. 244; and Senator Schmitt's space utilization bill, S. 3627.)

The greatest leverage is in the Subcommittees.

(As soon as I know who's the best source of hot info during the upcoming session, it'll be in Pyro.)

Gung-ho types are referred to Lobbying for Space, \$4.20 (\$3.50 for more than 10), from Space Initiative, Box 353, Santa Barbara, CA 95050.

For best angles propagandizing the general public, see Astronautics & Aeronautics, June '78, p. 60.

I am very enthusiastic, and moderately reliable answering mail;

Neil Rest  
1457 Gregory  
Chicago, IL 60640



Who sez Jeff Duntemann doesn't laugh at his sacred cows once in a while?????

Who sez that the Nuclear power people can't take a joke!



THIS & THAT----

Bill Leininger is recovering from a nasty something that was growing in his throat, but no, it didn't bust out of a pod, and yes, he's all right now. I request all GT women who meet him at conventions to be especially good to him; he's had a rough time.

I've got an article in the May BYTE. It was the first article in BYTE history where the printer lost the photos; the magazine is late because the press run was delayed a week while the editors found me in Chicago and begged me to send replacements. Thank God I bracket all my B/W photo work, is all I can say.

JEFF & CAROL DUNTEMANN  
301 SUSQUEHANNA ROAD  
ROCHESTER NY 14618

